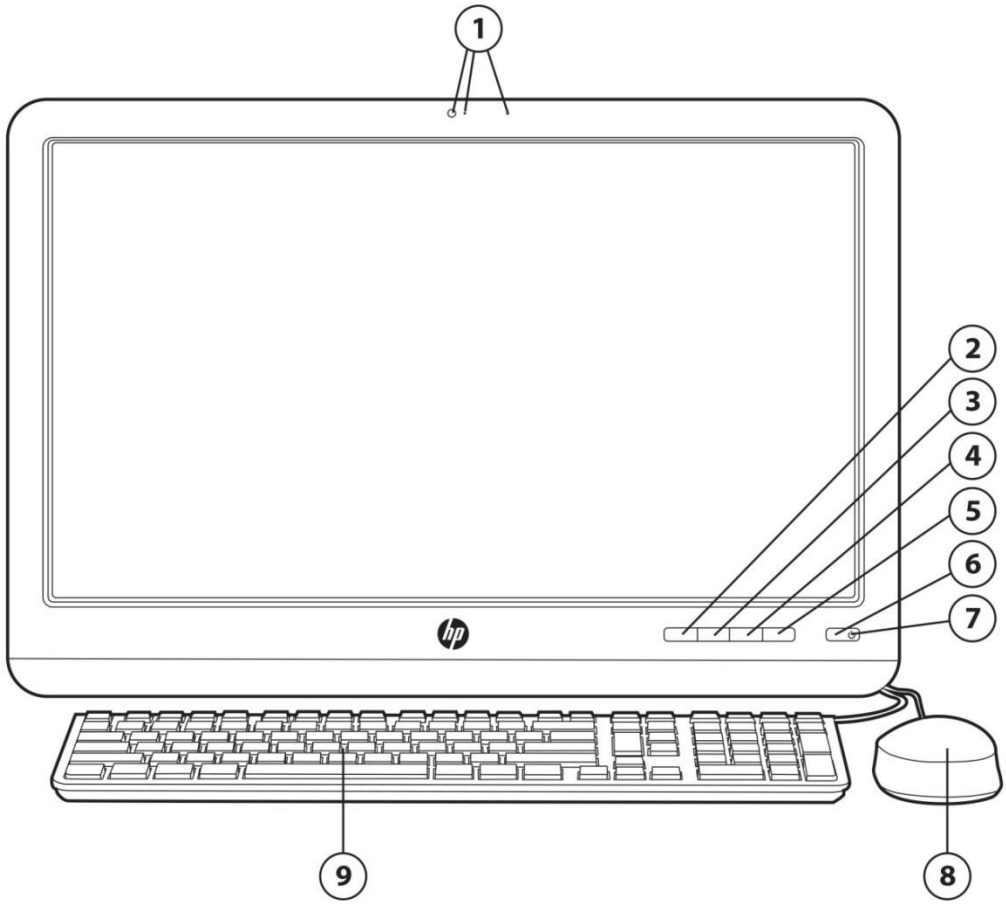
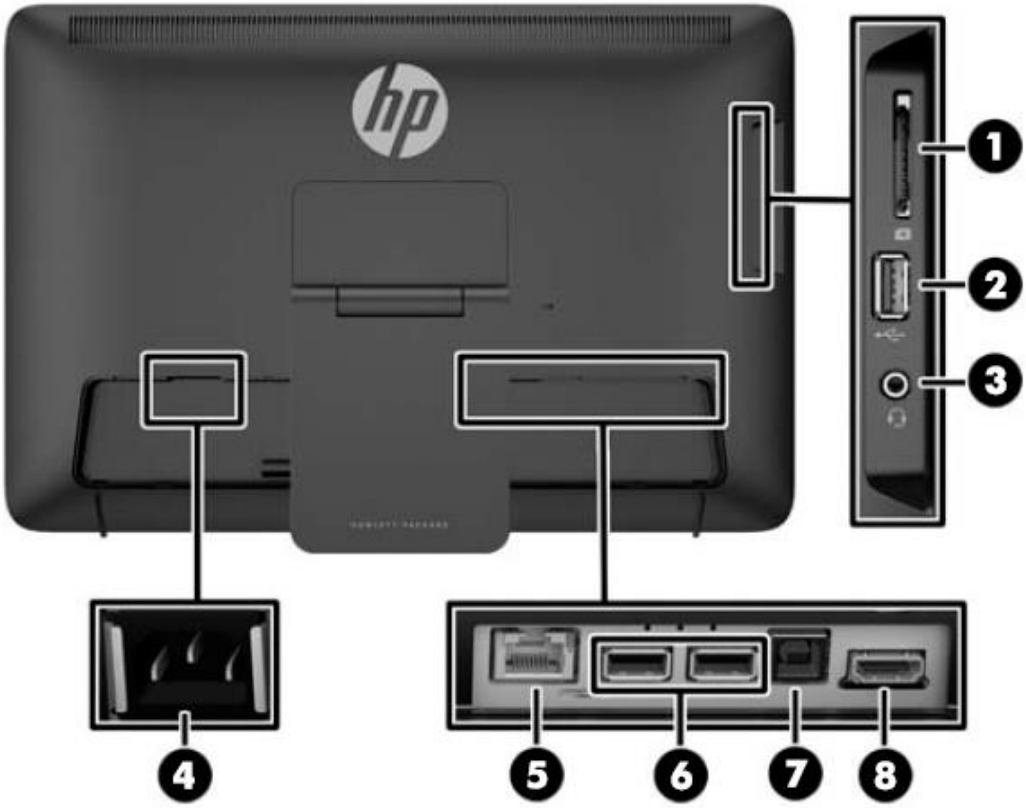
Overview

HP Slate21 Pro All-in-One Desktop PC



Component	Function
1. Integrated 720p webcam with dual microphones	Records video and captures still photographs; microphones record sound
2. Settings/Menu button	Settings: Opens the Settings in Slate mode Menu: Opens the OSD in HDMI mode
3. Volume up/Minus button	Volume up: Increases volume in Slate and HDMI modes Minus: If the OSD menu is active in HDMI mode, press to navigate backward through the OSD menu and decrease adjustment levels
4. Volume down/Plus button	Volume down: Decreases volume in Slate and HDMI modes Plus: If the OSD menu is active in HDMI mode, press to navigate forward through the OSD menu and increase adjustment levels
5. Source/OK button	Source: Switches between Slate and HDMI modes OK: If the OSD menu is active in HDMI mode, press to select the highlighted menu item
6. Power button	Turns the all-in-one on and off
7. Power LED	Indicates the current power state of the unit
8. USB mouse (included in select regions only)	Wired mouse connects to USB port on rear panel
9. USB keyboard (included in select regions only)	Wired keyboard connects to USB port on rear panel

Overview



Component	Function
1. SD card reader	Reads data from and writes data to Secure Digital (SD) memory cards
2. USB 2.0 connector	Connects external USB devices to the all-in-one
3. Audio-out (headphone) jack	Produces sound when connected to optional powered stereo speakers, headphones, earbuds, or a headset
4. Power connector	Connects the power cord to the all-in-one
5. Ethernet connector	Connects an Ethernet cable to the all-in-one
6. USB 2.0 connectors	Connect external USB devices to the all-in-one
7. USB upstream connector	Connects a USB cable between a PC and the all-in-one (required for touch functionality in HDMI mode when connected to a PC)
8. HDMI connector	Connects an HDMI device, such as a PC, camera, or DVD player

Overview

Models
HP Slate21 Pro All-in-One 200k: F7U54AA - with Keyboard and mouse*
HP Slate21 Pro All-in-One 200s: G0W16AA - without Keyboard and mouse**

* Not available in EMEA
** Available in EMEA only

At A Glance

- Android 4.3, Jelly Bean operating system
- 21.5" diagonal IPS full HD widescreen LED-backlit touch-enabled (1920 x 1080)
- Integrated All-in-One form factor
- NVIDIA® Tegra® 4 Quad-Core processor
- NVIDIA® graphics
- 2 GB of DDR3 memory
- 16GB of eMMC Flash storage[1]
- HD Webcam with built-in microphone
- Integrated 10/100 Ethernet
- Wireless connectivity - 802.11a/b/g/n wireless
- Bluetooth 4.0
- HDMI input
- USB keyboard and mouse (included in select regions only)
- Integrated speakers
- SD card reader

[1] 12.4GB is available for user. Total flash storage used for OS, preinstalled apps, recovery is up to 3.6GB.

Technical Specifications

Processor	Nvidia Tegra 4 Quad-Core T40S	
Processor Speed	Quad-Core 1.66 GHz (Dual-Core/Single-Core mode up to 1.8 GHz)	
Chipset	ARM Cortex-A15 Mpcore	
Operating System	**Preinstalled**	Android 4.3, Jelly Bean
Graphics	Integrated NVIDIA GPU (72 cores)	
Display	21.5" (54.6 cm) diagonal IPS full HD widescreen LED-backlit touch-enabled	
	Resolution	1920 x 1080 resolution (16:9)
	Contrast ratio	1000:1 typical
	Image brightness	220 nits typical
	Viewing angle (typical)	Up to 178º horizontal/178º vertical (10:1 minimum contrast ratio)
	Touchscreen	2 point optical touchscreen that uses 3 cameras
	Pixel pitch	0.2479 mm
	Response Time (Avg.)	14 ms
	NOTE: All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.	
Adjustable Tilt Stand	Tilt/recline	15 to 70 degrees
Memory	**Standard**	2GB DDR3–800 MHz SDRAM
	NOTE: All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.	
Communications	Integrated 10/100 Ethernet 802.11 a/b/g/n wireless Bluetooth 4.0 Wi-Fi Direct	
IO Devices	HP USB Keyboard (black) - (included in select regions only) • Wired • USB HP USB Optical Scroll Mouse (black) - (included in select regions only)	

- Wired
- USB

Storage	**Flash storage**	16 GB eMMC[2]
	Media Card Reader	SD Media Card Reader
Ports	**Side I/O Ports**	One (1) USB 2.0 port
		One (1) Headphone-microphone combo out (disables integrated speakers)
		One (1) SD Card reader
	Rear I/O Ports	Two (2) USB 2.0 ports
		One (1) RJ45 network connection
		One (1) HDMI input
		One (1) USB 2.0 upstream port
Audio/Visual	DTS Sound + integrated audio (2) Integrated stereo speakers – 2W x 2W Integrated Webcam (720p HD) with built-in microphone Headphone-microphone combo out (disables integrated speakers)	

Software **Preinstalled (varies by country)**

HP apps

HP ePrint
HP MyRoom
HP Media Player
HP File Manager
HP Printer Control
HP in-OS Print
HP Classroom Manager(Student Version)

3rd party apps

KingSoft (WW)
Kingsoft (Japan)
Box (50GB free cloud storage offer)[6]
Skype
Adobe PDF reader
Citrix Receiver
Citrix Worx (30-day Citrix Xenmobile trial offer)[7]
Evernote (WW)
Splashtop Personal

[2] 12.4GB is available for user. Total flash storage used for OS, preinstalled apps, recovery is up to 3.6GB.

Hulu Plus (NA Only)
RenRen (China only)
Sina Weibo (China only)
Tudou (China only)
Youku (China only)
Baidu Browser (China only)
Baidu Map (China only)
Baidu Search (China only)
QQ (China only)
Tencent MyApp (China only)

Google Apps

Google Play Store
Chrome Browser
Google Hangouts
Google Drive
YouTube
Calendar Sync
Contact Sync
Gmail
Google Play Books
Google Calendar
Google Maps for Mobile
Google Play Music
Google Play Videos
Google Play Magazines
Google Play Games
Google Partner Setup
Google Search
Google Services Framework
Google Gallery
Google Street View
Google Voice Search
Config Updater
Market Updater
Media Uploader
Network Location Provider
Set Up Wizard
Widevine
News & Weather

Other Software

NTFS and exFAT support
IME support

Power Supply	Integrated Power Supply. 100-240 V, 50/60 Hz, 1.5 (1,5A). 1.9m power cord included

Technical Specifications

Security Lock-Ready	Yes
VESA External Mounting	Yes (one set of standard 4-hole pattern, 100 mm)
Country of Origin	China
Cables included	1.8 m USB cable 1.9 m power cable
Service and Support	Protected by HP, including a 3 year standard limited warranty. Optional HP Care Pack Services[1] are extended service contracts that extend your protection beyond the standard warranties.

System Unit	**Dimensions (unpacked)** (WxDxH)	20.9 x 3.25 x 14.4 in 53.1 x 8.25 x 36.6 cm	
	Weight (unpacked)	13.6 lbs / 5.97 kgs	
	Shipping Carton Dimensions (W x D x H)	24.6 x 8.3 x17.8 in 62.4 x 21.1 x 45.2 cm	
	Shipping Carton Weight	With keyboard and mouse	20.2 lbs / 9.2 kgs
		Without keyboard and mouse	13.13 lbs / 5.96 kgs
	Pallet (30 units) Dimensions (WxDxH)	47.24 x 39.37 x 87.80 in 120 x 100 x 223.0 cm	47.24 x 39.37 x 88.11 in 1200 x 1000 x 2238 mm
	Pallet (30 units) Weight	630 lbs / 287 kgs	
	Stand-Alone Power Requirements	Electrical Ratings	100-240 V, 50/60 Hz
		Idle Operating Power	20W
		Max Operating Power	<40W
	Temperature	Operating*	41° to 95° F (5° to 35° C)
		Non-operating	-4° to 140° F (-20° to 60° C)
	Relative Humidity	Operating (non-condensing)	25% to 80%
		Non-operating (38.7° C maximum wet bulb temperature)	5% to 95%
	Altitude (unpressurized)	Operating	0 to 16,400 ft (0 to 5000 m)
		Non-operating	0 to 40,000 ft (0 to12,192 m)

Technical Specifications

Industry Standard Certifications	ENERGY STAR®	Yes
	EPEAT® Gold[2]	Yes
	CEL Grade 1	Yes (APJ only)
	WW Safety and EMC certifications	Yes
Citrix Certifications	Citrix ready	Yes
	HDX verified	Yes
Environmental	Low Halogen[3]	Yes *(External accessories, including power supplies, power cords, and peripherals may not be Low Halogen.)*
	Arsenic-free display glass[4]	Yes
Color	Black	

For accessibility information on HP products, please visit: http://www.hp.com/accessibility.

* Operating temperature is de-rated 1.0 deg C per 300 m (1000 ft) to 3000 m (10,000 ft) above sea level, no direct sustained sunlight. Maximum rate of change is 10 deg C/Hr. The upper limit may be limited by the type and number of options installed.

Accessories (sold separately)	**HP LCD Monitor Quick Release Part number EM870AA[5]**	An easy-to-use, VESA-compliant, LCD monitor mounting solution that allows you to quickly and securely attach an LCD monitor to a variety of stands, brackets, arms or wall mounts. For more information, refer to this product's QuickSpecs document.
	HP Single Monitor Arm Part number BT861AA	The flexible design of the HP Single Monitor Arm provides a seemingly endless range of display adjustments with an amazing 13 inches of lift, 75 degrees of tilt, and 360 degrees of pan and rotation – all at your fingertips -- helping you stay comfortable and productive throughout the day.
	HP Ultraslim Keyed Cable Lock Part number H4D73AA	Designed to fit industry standard lock slot. Push-to-lock feature for fast and easy installation, Lock and unlock the locking mechanism with a key that is unique to the lock. Cable adjusts 360 degrees to wherever you need it.
	HP Notebook Combo Lock Part number AY475AA	Durable 360 degree swivel hinge head allows for easier installation and removal. Features a 4-digit user-settable combination with up to 10,000 possible settings. Reset function if combination is lost or forgotten.
	HP Basic Capacitive Stylus Part number E7U18AA	Smoothly interact with your touch screen capable notebook, desktop or tablet with HP's economical Basic Capacitive Stylus. Enjoy the natural feel as holding your favorite pen while navigating the Web or apps, writing or

		drawing. Keep your screen clean of fingerprints, smudges, and scratches – even works with a screen protector.
	HP Executive Capacitive Stylus Part Number E7U19AA	Keep your touchscreen device clean of fingerprints and smudges with HP's Executive Capacitive Stylus – perfect for touch screen capable notebooks, tablets, and desktop screens. Versatile – type, draw, touch type or simply browse the Web or your favorite apps effortlessly – even works with screen protectors.
	HP Pocket Playlist Part Number H4D65AA	The revolutionary HP Pocket Playlist streams different kinds of content[8]— movies, music, TV shows, photos— to up to 5 individual mobile devices at the same time.[9] No Internet required; it won't eat up your data plan.
	HP Height-adjustable Stand for Touch Monitors Part Number A1X81AA	Ruggedized, small footprint maximizes space. Height and tilt adjustments help you customize positioning to best meet your environment's needs
	HP 2.4 GHz Keyboard and Mouse - G1K29AA	Work smarter with your notebook, tablet or all-in-one by adding the HP 2.4 GHz Keyboard and Mouse for fast and easy data entry, Web navigation, and document scrolling.

Environmental Data

Eco-Label Certifications & declarations

This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:

- IT ECO declaration.
- US ENERGY STAR®
- EPEAT Gold registered in the United States. See http://www.epeat.net for registration status in your country.

System Configuration

The configuration used for the Energy Consumption and Declared Noise Emissions data for the Desktop model is based on a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.

Energy Consumption (in accordance with US ENERGY STAR® test method)

	115VAC, 60Hz	**230VAC, 50Hz**	**100VAC, 60Hz**
Normal Operation (Short idle)	22.5 W	22.4 W	22.5 W
Normal Operation (Long idle)	4.6 W	4.9 W	4.5 W
Sleep	NA	NA	NA

Off	0.3 W	0.3 W	0.4 W

NOTE:
Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family . HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.

Heat Dissipation*	**115VAC, 60Hz**	**230VAC, 50Hz**	**100VAC, 60Hz**
Normal Operation (Short idle)	77 BTU/hr	77 BTU/hr	77 BTU/hr
Normal Operation (Long idle)	16 BTU/hr	17 BTU/hr	15 BTU/hr
Sleep	NA	NA	NA
Off	1 BTU/hr	1 BTU/hr	1 BTU/hr

*** Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.**

Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power (LWAd, bels)	Sound Pressure (LpAm, decibels)
Typically Configured - Idle	NA	18
Fixed Disk - Random writes	NA	18

Longevity and Upgrading

This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include:

- 6 USB ports
- 2 memory slots
- 1 Mini PCIe half-length slot
- 1 MXM 3.0 Type A - 35W slot
- 1 mSATA slot
- 1 2.5" internal bay supporting up to Two 2.5" hard drives (HDD/SSD/SED/SSHD)
- 1 5.25" external supporting optical drive

Spare parts are available throughout the warranty period and or for up to "5" years after the end of production.

Batteries

Product Does not contain batteries

Additional Information

- This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC.

- This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive - 2002/96/EC.
- This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).
- Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043.
- This product contains 16.8% post-consumer recycled plastic (by wt.)
- This product is 98.3% recycle-able when properly disposed of at end of life.

Packaging Materials

External:	PAPER/Paper	1308 g
Internal:	PLASTIC/EPS (Expanded Polystyrene)	430 g
	PLASTIC/EPE-Expanded Polyethylene	26 g
	PLASTIC/Plast. Other	4.7 g

The PAPER/Paper packaging material contains at least 80 % recycled content.

The PLASTIC/EPS (Expanded Polystyrene) packaging materials contains at least 31% recycled content.

The PLASTIC/Polyethylene low density packaging materials contains at least 5% recycled content.

Material Usage

This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at: http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/qse.pdf):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants - may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Nickel - finishes must not be used on the external surface designed to be frequently handled or carried by the user.
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)

- Polyvinyl Chloride (PVC) - except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)

Packaging Usage

HP follows these guidelines to decrease the environmental impact of product packaging:

- Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
- Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
- Design packaging materials for ease of disassembly.
- Maximize the use of post-consumer recycled content materials in packaging materials.
- Use readily recyclable packaging materials such as paper and corrugated materials.
- Reduce size and weight of packages to improve transportation fuel efficiency.
- Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.

End-of-life Management and Recycling

Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

Hewlett-Packard Corporate Environmental Information

For more information about HP's commitment to the environment:

Global Citizenship Report
http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html
Eco-label certifications
http://www8.hp.com/us/en/hp-information/environment/ecolabels.html
ISO 14001 certificates:
http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC_GBU_Product_Design_ISO_14K_Certificate.pdf
and
http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf

1. HP Care Pack Services extend service contracts beyond the standard warranties. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts from date of hardware purchase. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at http://www.hp.com/go/lookuptool. Additional HP Care Pack Services information by product is available at http://www.hp.com/hps/carepack.
2. EPEAT® Gold registered models of this product are available where HP registers commercial display products. See www.epeat.net for registration status in your country.
3. External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.
4. Arsenic and its compounds were not detected using US EPA Test Methods 3052 & 3052/6010b by ICP or ICP-AES with a with a Method Detection Limit of 10 ppm.
5. The HP Quick Release has been designed to support a maximum of up to 24 lbs (10.9 kg) for all devices mounted. Because mounting surfaces vary widely and the final mounting method and configuration may vary, mounting fasteners are not supplied (other than the VESA-compliant screws). HP recommends that you consult with a qualified engineering, architectural or construction professional to determine the appropriate type and quantity of mounting fasteners required for your application and to ensure that your mounting solution is properly installed to support applied loads.
6. You can try MyRoom Premium 4-person account free for 1 year from the MyRoom app. Please review the MyRoom system requirements on this site. Purchase required after the 1-year trial offer ends. For additional capabilities, you can purchase MyRoom that will work for your needs from www.myroom.hp.com.
7. Citrix Worx Home for Android is pre-installed and ready to be managed by Citrix XenMobile. Customers who have already purchased Citrix XenMobile can enroll immediately. A 30- day Citrix XenMobile trial is available through the Citrix icon on the HP Slate21 Pro home screen. Subscription service required after trial period ends.
8. Streams unencrypted content only.
9. Battery life depends on usage.

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February 2014

Change Log	
April 11, 2014 - From Version April 10 to April 11	
	Added
	Added in description of Models. HP Slate21 Pro All-in-One 200k: F7U54AA - with Keyboard and mouse HP Slate21 Pro All-in-One 200s: G0W16AA - without Keyboard and mouse
April 10, 2014 - From Version April 7 to April 10	
	Added
	HP 2.4 GHz Keyboard and Mouse - G1K29AA, Work smarter with your notebook, tablet or all-in-one by adding the HP 2.4 GHz Keyboard and Mouse for fast and easy data entry, Web navigation, and document scrolling.
April 10, 2014 - From Version April 7 to April 10	
	Added
	Change Log
July 1, 2014 - From Version 2.3 to 2.4	
	Added Pixel pitch and response time
	Added under display
July 16, 2014 - From Version 2.4 to 8	
	Upgrade
	Change the version so it would match the one in the PB